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THE TECHNOLOGY REVIEW

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ANNUAL BANQUET

The Annual Banquet of the Alumni Association will be held at the Hotel Somerset, Boston,

SATURDAY, JANUARY 10, 1914,

AT SEVEN P. M.

SPEAKERS

RICHARD C. MACLAURIN	President of the Massachusetts Institute of Technology
DAVID I. WALSH	Governor of Massachusetts
W. CAMERON FORBES	Ex-Governor-General of the Philippines
JASPER WHITING, '89	President-elect of the Alumni Association

All Technology Get-Together

at Chicago, February 20 and 21, 1914

on the occasion of

Second Annual Convention

of the

Technology Clubs Associated

Program: The Time of Your Life!

The Technology Review

Vol. XV DECEMBER, 1913 No. 9

PREPARING FOR THE FOUNDATIONS

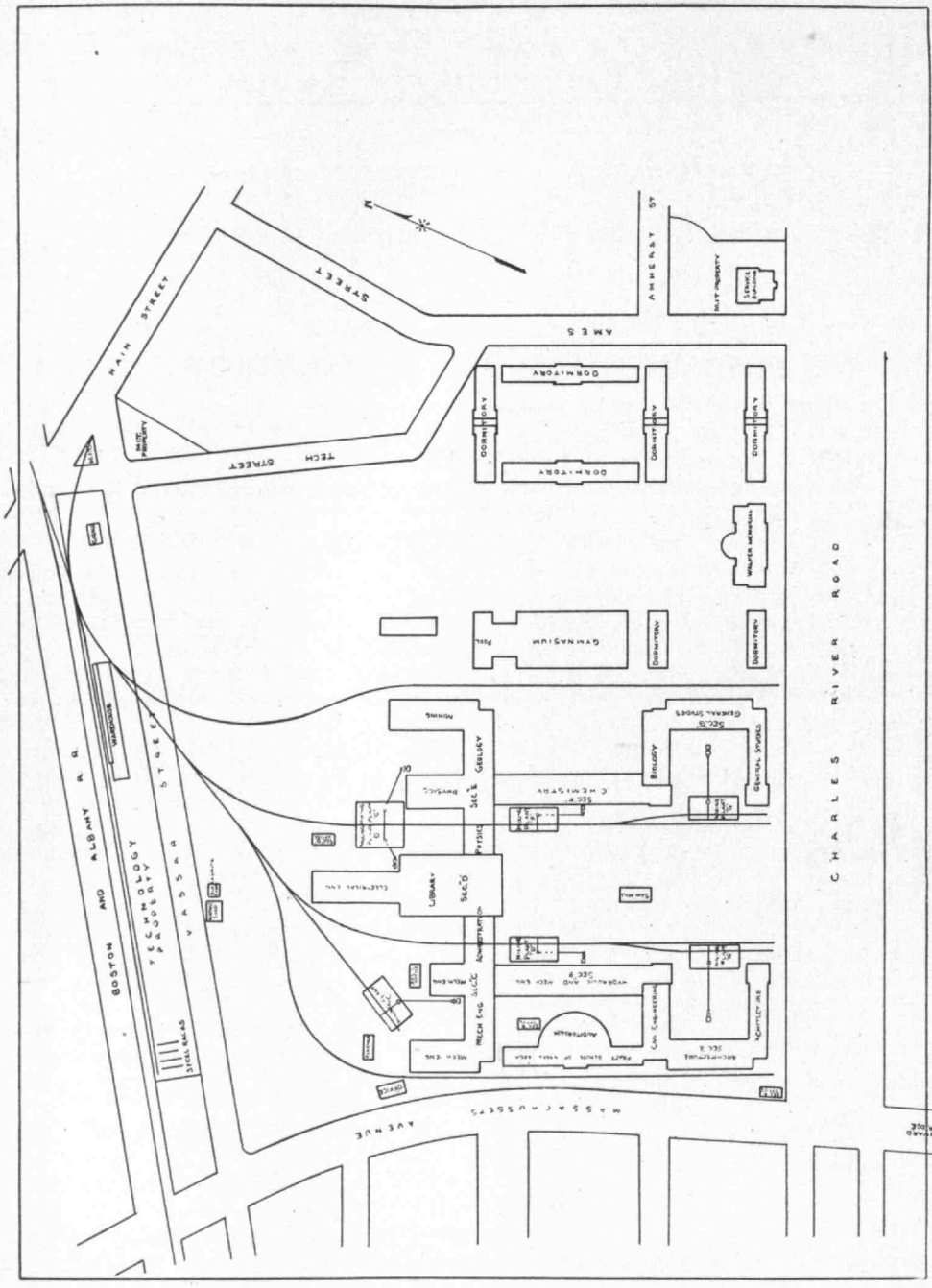
All preliminary work on the new site is completed and everything is ready for active building operations—Fourteen thousand carloads of material to go into the new buildings

Those who have not viewed the new Institute site in Cambridge for two or three months would not recognize it if they should see it now. Great excavations mark the eastern side of the lot with the full pattern of the educational buildings, and here the filling has been practically completed, bringing the main court high above the level of the river. The other side of the tract is not yet completely filled, but at the present rate it will soon be up to grade.

The Stone & Webster Engineering Corporation, who have charge of the work, have been looking ahead and preparing to handle this immense enterprise in the most efficient and expeditious way when the work is in full swing. The most important preliminary has been testing the ground upon which the foundations of the great buildings are to rest. Prof. W. O. Crosby, '76, early made a thorough investigation of the bearing qualities of the soil and the substrata over the entire site. His reports show that bed rock may be found at depths from 120 to 135 feet below the surface, but that a great thickness of gravel and sand, of excellent bearing quality, covers the area beneath the proposed buildings at a depth of ten to twenty feet. It was the opinion of Prof. Crosby that satisfactory bearings can be obtained upon the gravel stratum, and that no attempt should be made to pierce it. It can be reached either by excavation, the footings being placed directly upon it, or by piling driven to its bearing surface.

The engineering force has devoted much attention to the matter of piling. A great number of experiments have been made, among them have been tests of concrete piles, both of the Raymond and the Simplex types. Much study has also been given to typical sections in order to determine the most practical and economical plan of framing; also to the proper proportion of loads on the footings, to the detailing of standard members, wherever possible, and to the details of the sub-surface formation over which the building foundations are to be constructed.

The problem of handling some 14,000 carloads of building material on a restricted area, such as this one, has been carefully studied by the engineers. The incoming material will be taken, for the most part, directly from the train by a switch engine detailed for the purpose, and delivered at the point where it is to be used, over one of the five spur tracks parallel with the main axis of



PLAN OF TECHNOLOGY SITE SHOWING SPUR TRACKS

the lot. Some of the material will be stored in a large storehouse located at the rear of the plant next to the railroad track. The steel for the reënforced concrete construction will be unloaded from the car directly to special bins, where there are also shears and benders for cutting and shaping the rods.

In order to facilitate the handling of the construction, the work has been divided into eight units, each having a complete organization, including a superintendent, a division office, storehouse, time keepers, engineers and laborers. Each of these eight units will have its own separate construction equipment, the units being as nearly alike as possible. It is expected that by keeping comparative records of the cost of each division, a spirit of rivalry will be engendered, which will have the effect of reducing cost and time, especially as the figures will be available twenty-four hours after the actual completion of each day's work. Each division has a specific section of the work to handle; each will have its own mixing plants, with storage bins and concrete hoist towers, which will be located at the strategic points of the building. The towers are 110 feet high, and each tower has a radius of action of about 250 feet.

The driving of the piles was begun on the 4th day of December. It is interesting to note that the plant will require a lumber yard and saw mill, which is being set up near the esplanade. It will be mainly used in fitting forms for the concrete work, and fifty or sixty men will be employed here. There will also be planers, jointers, boring machines and other conveniences for pushing the work. There is also a machine shop and a blacksmith's shop at the rear of the lot on Vassar Street.

There are two other features of the organization which are interesting—the fire equipment and the first-aid room. This last is in a section of the large storehouse, where a room has been fitted up with hot and cold water and simple medical and surgical appliances. A young man here with medical knowledge is ready to answer emergency calls at any time. There is a stretcher at every section headquarters, as well as a telephone which is connected with the large local system on the plant. The apparatus for fire protection consists of a water main laid along the storage warehouse on Vassar street. This main has five hydrants which are provided with standard fire hose.

Among the interesting figures connected with the new buildings are the following: The educational group will have 15,000,000 cubic feet of contents, and a floor area of 890,000 square feet. Its foundations will be built upon 20,000 piles, which, if laid end to end, would extend nearly a hundred miles; 50,000 cubic yards of concrete will be used in the foundations and the reënforced concrete frame. This concrete will be made from 80,000 barrels of cement, 25,000 cubic yards of sand and 50,000 cubic yards of gravel, and 5,000 tons of reënforced steel.

The principal elevations will be faced with Bedford limestone blocks requiring approximately 200,000 cubic feet of stone, and the inside courts, the curtain and division walls, will be faced with some 15,000,000 light-face brick. There will be 1,500,000 feet of lumber used for concrete forms.

Meeting of the Council

At the meeting of the Alumni Council held at the University Club November 17, two matters of great interest were presented by members of the Faculty. Professor Pender, director of the division of electrical research told about the new department, the work it has already done, and some of the things it expects to do in the future. An article on the new division of electrical research was published in the last number of the TECHNOLOGY REVIEW. Professor Miller described a number of interesting features of the work of the mechanical engineering department, giving full description of matters which were of great interest to the members of the Council. An article on the advances made in this department will appear in an early number of the REVIEW.

LOOKING TOWARD BOSTON FROM THE NEW SITE

A RECENT BIT OF HISTORY

How the Campaign for a Building Fund started only a little More than Four Years Ago

It was just about four years ago that the Institute, desperately in need of more room to accommodate its students, made a modest plea for funds with which to build a new home. In the light of the generous benefactions since received, this bit of publicity is interesting, and we therefore append it:—

'The Massachusetts Institute of Technology, which for the past two or three years has been embarrassed for room to meet its growing needs, has definitely decided to start a movement to secure a new site and new buildings immediately.'

"This statement was made by the new President, Dr. Richard C. Maclaurin, and by Mr. Edwin S. Webster, president of the Alumni Association, at the Technology reunion banquet this week. The need for more room has become so pressing that the present quarters will hardly suffice until new buildings are erected, which can hardly be accomplished in less than five years even if building operations are begun at once.

"The Institute wishes to secure a suitable site in a less congested district than the present location, and, at the same time, so centrally located as to be easily accessible from all parts of greater Boston. There are five sites answering this description, any one of which would be desirable. The amount of land needed is from thirty to forty acres, which would probably allow sufficient room for expansion for at least fifty years.

"The character of the buildings will be largely determined by the amount of money secured. It is hoped, however, that the funds will be contributed so generously that the Institute can erect a group of buildings which will exemplify the highest ideals of present-day architecture, and which will be one of the ornamental features of the city. It is understood that an appeal will be made for funds to friends who are in sympathy with the work of the Institute, as the alumni body is not yet able to contribute the money necessary for its logical development.

"The somewhat startling statement is made that one half the graduates have left the Institute since 1898, and that three quarters of them have been graduated inside of thirteen years, so that the majority of them are not yet in a position to contribute any considerable proportion of the amount required. That the alumni body, however, has a considerable financial ability and a strong spirit of loyalty, is shown by the fact that there is now on deposit about $125,000, which was contributed by the alumni about seven years ago for a memorial building to President Walker, to be erected as soon as a site had been secured; and the further fact that the alumni are now contributing $40,000 a year for the current expenses of the Institute. It is interesting to note that this money is being given by 1700 contributors. It is also to be said that the funds thus far subscribed toward a new site, which amounts to about $150,000 comes exclusively from Technology men.

"The Institute is now in a position of permanency, having recently installed a new President and adopted a definite policy. It has sent out over four thousand graduates,—among whom are some of our most prominent engineers and scientists. The state and community have been greatly benefited by the investigations of its instructing staff, which has been, to a great extent, devoted to the advancement of industrial processes and conditions in New England. It is the pioneer in developing new methods of education principally along scientific and technical lines, which have been

generally adopted, not only in other technical institutions, but in the science departments of the academic colleges.

"The executive officers and the alumni are coöperating in this movement to secure funds for new buildings, which shall be available at the time of the 50th anniversary of the Institute which occurs in about six years."

A Jubilee Banquet

The annual banquet of the Alumni Association which will be held at the Hotel Somerset, Boston, January 10, will naturally be in the nature of a jubilee; for since the last meeting large additional gifts have been received, an architect has been appointed, the plans have been approved, the construction engineers have been appointed, and work is now being pushed with great vigor by Stone & Webster, the engineers.

Among the speakers will be President Maclaurin, who will probably devote himself principally to the new buildings. The President's remarks will be illustrated by slides showing the new Technology group as it will appear. The new governor of the Commonwealth of Massachusetts, David I. Walsh, has accepted an invitation to be present and to speak as a member of the Corporation of the Institute. This will be one of Governor Walsh's first public appearances as governor. Another speaker will be Mr. W. Cameron Forbes, late governor of the Philippines, who was recently so warmly welcomed upon his return to America by the City Club. Jasper Whiting, '89, president-elect of the association will be introduced.

Technique Sets a Precedent

The profits of *Technique*, 1914, were disposed of at a meeting of the board last month. The total amount was about eleven hundred dollars, more than has ever been cleared by any *Technique* before.

The books were sold at about the average of former *Techniques*, so the board attributes the large profit to the fact that more advertisements than usual were sold. The 1914 *Technique* contained advertisements worth $700 more than those in the 1913 *Technique*.

The board has turned $750 over to the Institute committee, without restriction or condition. The remaining money is put into a fund started by *Technique*, 1912, which will be used to purchase furniture for the *Technique* office in the Walker Memorial Building of the New Institute.

Articles by Cleveland Tech Men

The Cleveland Engineering Society has been very active during the past year, and a large number of the papers presented by its members have been widely published. Among them was an article on "Railroad Engineering" by A. W. Johnson, '73, general manager of the New York, Cincinnati & St. Louis, R. R.; a paper on "Mining Engineering" by Frank B. Richards, '84, of M. A. Hanna & Company, and a paper on "Sanitary Engineering" by R. Winthrop Pratt, '98, city sanitary expert of Cleveland. The articles written by the members of the Cleveland Engineering Society have had principally for their object instruction of young men about to choose a profession, and the efforts of the publicity committee of the society have been very successful in giving useful information a wide circulation.

Death of Professor Longfellow

William Pitt Preble Longfellow, nephew of Henry W. Longfellow, and at one time professor in the architectural department at the Institute, died at his home in East Gloucester in August. After being graduated from Harvard with the class of 1855, Prof. Longfellow took up architecture and was assistant architect of the Treasury Department for several years. He then came to Technology and afterwards, giving up architectural work, he devoted his attention to literature.

He was the author of "Abstracts of Lectures on Perspectives," "Encyclopedia of Architecture in Italy, Greece and the Levant," the "Column and the Arch" a series of architectural essays, "Applied Perspective," "The Greek Vase," and a "Dictionary of Architecture."

SUMMER SURVEYING CAMP—SEASON OF 1913

Record of a Successful Season—Baseball and Athletic Field presented by C. W. Eaton, '85—The Post Office is "Technology, Maine"

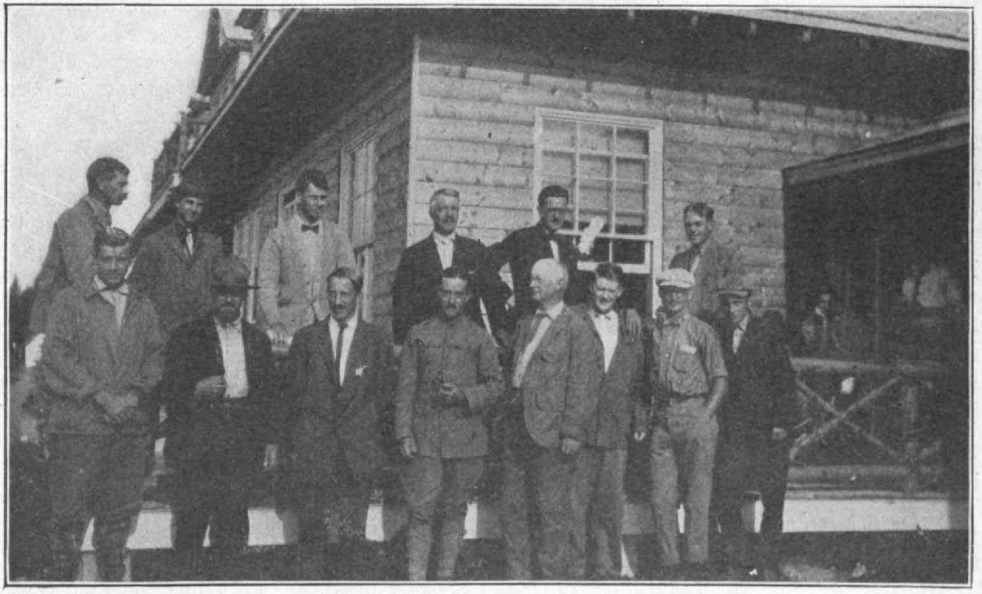
The second session of the Summer Surveying Camp, and the first session at which attendance was required, was held this year from August 6 to September 23 with eighty students and fourteen members of the instructing staff in residence. The experience acquired in the first session of the camp as to its educational possibilities and operating requirements made it possible to conduct the camp with more efficiency than in 1912, and the results obtained, educationally and otherwise, were extremely satisfactory to the instructing staff, and so far as one can judge, to the students also.

The surveying course was broadened somewhat this year by the addition of an elective course in underground surveying given at an iron mine of the Canada Iron Corporation at Torbrook, Nova Scotia. The party taking this trip was organized at the camp and conducted by Prof. Howard; the party leaving the camp a week or so before its date of closing and returning to Boston direct from Nova Scotia. The trip was a successful one and it is expected to make this a permanent feature of the summer school.

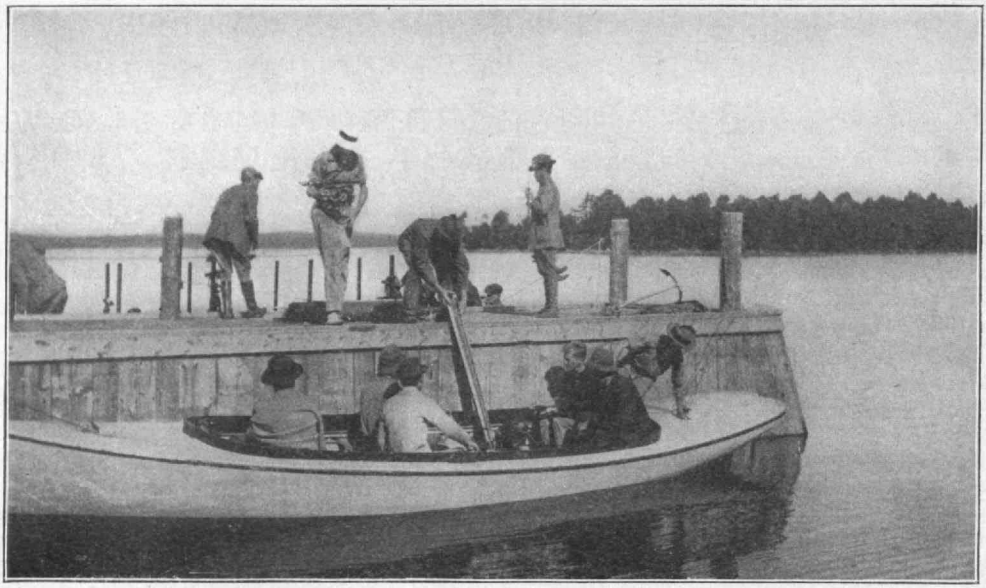
In addition to the regular instruction in surveying, numerous talks upon other and more general matters were given during the session. These included illustrated talks by members of the instructing staff, while the following gentlemen were kind enough to visit the camp for the special purpose of addressing the students:

Prof. William T. Sedgwick, Mr. Louis K. Rourke, '95, commissioner of public works of the city of Boston, and Prof. Harrison W. Smith, '97, of the Institute.

Many of these talks were given on Sunday evening and it is hoped that another season it will be possible to have a speaker at the camp each Sunday. Other visitors



SUMMER SCHOOL CORPS OF INSTRUCTORS



STARTING OUT FOR THE DAY

to the camp during the season included Messrs. Leonard Metcalf, '92, and Charles W. Eaton, '85.

The most notable improvement to the camp property during the year has been the construction of an athletic field given to the camp by Mr. Charles W. Eaton who previously gave a considerable sum for equipment. Owing to the rolling character of the ground in the vicinity of the buildings, no level space was available for such a field without much clearing. This clearing was done last spring, and while the field was not entirely ready for use during the past season, owing to the incompletion of the gravel surfacing, it was possible to use it to some extent, the field sports spoken of later having been conducted there. The field has an area of three acres, providing ample space for a ball field, surrounded by a running track with six laps to the mile, including a straightaway stretch of 100 yards. There is also room for several tennis courts. This field has been named "The Eaton Field" and will prove of great value to the camp in the future.

Another feature of assistance in the operation of the camp was the new post office—Technology, Maine. This is a summer post office established by the government with our caretaker as postmaster, although the official duties of the post office were conducted by our clerk, Mr. J. H. Hession. The establishment of this post office made it possible not only to receive and send out ordinary mail, but also to conduct a parcel-post and money-order business.

In accordance with the custom established last year, the only holiday during the camp session, Labor Day, was celebrated by field sports in the morning won by Arnold B. Curtis, '15, and by a reception in the afternoon to the people from the surrounding villages. A minstrel show was given on the following Saturday evening at East Machias to secure money for the Camp Improvement Fund established by the students this year. This show was given to a crowded house and was a decided success financially and otherwise.

Our experience last year made it seem advantageous, both financially and otherwise, to secure our milk supply from the Drisko farm at Addison, Maine, about twenty miles from the camp. This farm

is owned and operated by Prof. Drisko of the Institute and furnishes milk of a high grade produced under sanitary conditions. Its popularity as an article of diet is shown by the fact that the camp consumed 120 quarts per day, or an average of more than a quart to each person, including the members of the steward's staff.

There were no cases of serious illness during the camp session, although our resident physician, Dr. C. M. Robinson, of Portland, Maine, was kept reasonably busy with minor complaints. The most serious accident happened to one of our instructing staff, Mr. E. L. Macdonald, who was unfortunate enough to break the small bones in one of his legs while playing baseball on a Saturday afternoon.

The healthfulness of life at camp would have been obvious to any who could have seen its members either at camp or upon their return. In spite of the hard and continuous fieldwork, the total gain of weight by the student body and instructing staff during the season was 600 pounds or an average of more than 6 pounds, although some of the heavier members lost a considerable amount and probably every one lost weight during the first two or three weeks before becoming hardened to the field-work.

CHARLES M. SPOFFORD, '93.

The Association of Class Secretaries

The Association of Class Secretaries held their meeting November 24, at the Technology Club, Boston. The attendance was small, but the interest was strong. The object of the association was discussed, and it was felt that there was a definite work for the association to perform in assisting secretaries in making their classes more effective in various ways.

A very profitable evening was passed in comparing notes on the collection of dues, character of class entertainments, methods of getting large attendance at the meetings, how to secure news for class correspondence in the REVIEW and a number of other things that go to make alumni *esprit du corps.*

It was decided to provide standard information blanks for the use of classes publishing class books, and it was suggested that statistics bearing on the cost of class publications be collected and sent out to the class secretaries for their information.

It was decided to hold a meeting of the association about the middle of February and to take up the matter of the five-year reunion celebration. The meeting will, therefore, especially interest classes where the year ends in 4 and 9.

Professor Tyler of the Walker Memorial committee informally discussed the matter of the proposed "Life of the Late General A. Walker." The secretaries present expressed themselves as being heartily in favor of the publication of this book, believing that there will be a larger sale than had been contemplated. It should be ready about the time of the dedication of the new buildings, and should be on sale at the big reunion in 1915. It was generally thought that the book would at least pay for itself, and it was hoped that some way might be found of financing the preliminary work so that the publication might be possible.

1912 Technique Funds

The 1912 *Technique* Board have devoted part of their surplus funds in wiping out the deficit of $120 of the class day committee; also for taking care of a deficit arising from the publication "Concerning M. I. T." published by the Institute committee, amounting to $75, and the rest of the surplus has been turned over to the class fund.

It is hoped that this fund will be increased liberally from year to year, and that in twenty-five years it will amount to a large sum, the intention being to turn it over to the Institute at that time.

Mark Janury 10th, alumni banquet, on your calendar

TECHNOLOGY AT THE PUBLIC HEALTH CONVENTION

One-fifth of the Papers and Reports presented were by Tech Men—Professor Gunn '05, Re-elected Secretary

On September 9–13, the forty-first annual meeting of the American Public Health Association was held in Colorado Springs, Col. This association, which meets yearly, brings together the men and women most eminent in the fields of sanitary science and public health and offers an opportunity for a general survey of the health activities of the country, as well as a chance to discover "who's who" in these lines of public service. The service which the association has rendered the country is great but space forbids treating of it here.

The connection between the Institute and public health in America has been a long and honorable one. Three of the most famous chemists who have ever been on the teaching staff, Prof. Wm. Ripley Nichols, Prof. Thomas M. Drown and Mrs. Ellen H. Richards, '73, were intimately connected with sanitary work, and built up for the Institute an international reputation because of their great influence upon the methods, theories and practice of the chemistry of sanitation. They were also life-long members of the Public Health Association and much honored by its members. It is, however, not only through the works of this lamented trio that Technology has maintained its reputation in the front rank of institutions in America dealing with public health, nor is it solely on the chemical side that the work and teaching of the Institute has been of a great importance. On the bacteriological and biological side our own Prof. Sedgwick has long occupied a foremost position, not merely in actual study and investigation of sanitary problems, but through the enthusiasm and ability which he has inspired in his students during his more than thirty years of service.

One has only to look at the program of the Colorado Springs meeting to appreciate that Technology men have done and are doing a goodly share in the advancement of the arts of sanitation in America for in many branches of the work of the different sections the names of those who have had a part of their training at the Institute stand out prominently. Furthermore, it should be a matter of pride to all that the journal of the association is under the editorial management of our own Prof. Gunn and that he as secretary of the Public Health Association was responsible for the most interesting and useful symposiums, the efficient management and coördination of the convention and had entire charge of the arrangement of programs, section meetings and general conferences.

The American Public Health Association includes, in addition to general sessions dealing with the large problems relative to public health, five sections dealing with more limited and special phases of the subject. These are, in order of their age of organization: 1, the laboratory section, dealing with chemical and biological methods of investigation; 2, vital statistics, dealing, as its name implies, with the data of health and disease; 3, public health officials, dealing with problems in administration; 4, sanitary engineering, and 5, sociology, the interests of both of which are self-evident and need no comment. Each section holds special meetings, at which papers of particular interest to those belonging to the section are presented. The papers of great public interest come in the general sessions which are open to all who desire to attend.

In all, during the whole session at Colorado Springs, 165 papers or reports were submitted in the different meetings. Of these, thirty-five were presented by alumni of the Institute, or by men who have obtained a portion of their training in its

class rooms. Of forty-one papers presented at the general sessions, eight were by Institute men. Probably the most impressive, significant and highly commended paper of the whole session was one by Prof. Sedgwick, entitled "The Reappearance of the Ghost of Malthus," a paper dealing in an especially broad and philosophical way with the tendency of populations to outstrip the increase of food supplies. Other Technology papers of special importance presented was one dealing with Coöperation and Efficiency in Rural Health Work, an account of the work by Prof. Phelps, '99, and his associates in Wellesley, Framingham, Belmont and other nearby towns; "Hygiene and Physical Education," by Dr. E. C. Howe, '08, of the department of biology and public health; an "Investigation of the Relationship of Indoor Temperature and Humidity in the Winter to Infant Mortality from Respiratory Diseases," reporting research by Dr. Armstrong and Prof. Gunn, as well as several other papers. In the laboratory section seven papers out of a total of 34 were presented by Institute men. These dealt with a great variety of subjects ranging from "A Study of the Germicidal Action of Ultra Violet Rays" and "Methods of Examination and Treatment of Waters" to "Designs for Sanitary Houses for Animals." In the section of public health officials of which the secretary is Dr. E. C. Levy of Richmond, Va., a former student in the Institute, an important paper was presented by Franz Schneider, Jr., '09, formerly of the department of biology and public health and now connected with the Russell Sage Foundation, who has collected and digested the facts concerning the activity of municipal health departments in different cities in the United States. The information presented in this paper should be of very great value in stimulating backward cities to increase their appropriations for health work and to replace antiquated or obsolete methods by modern ones which are really effective in improving health conditions.

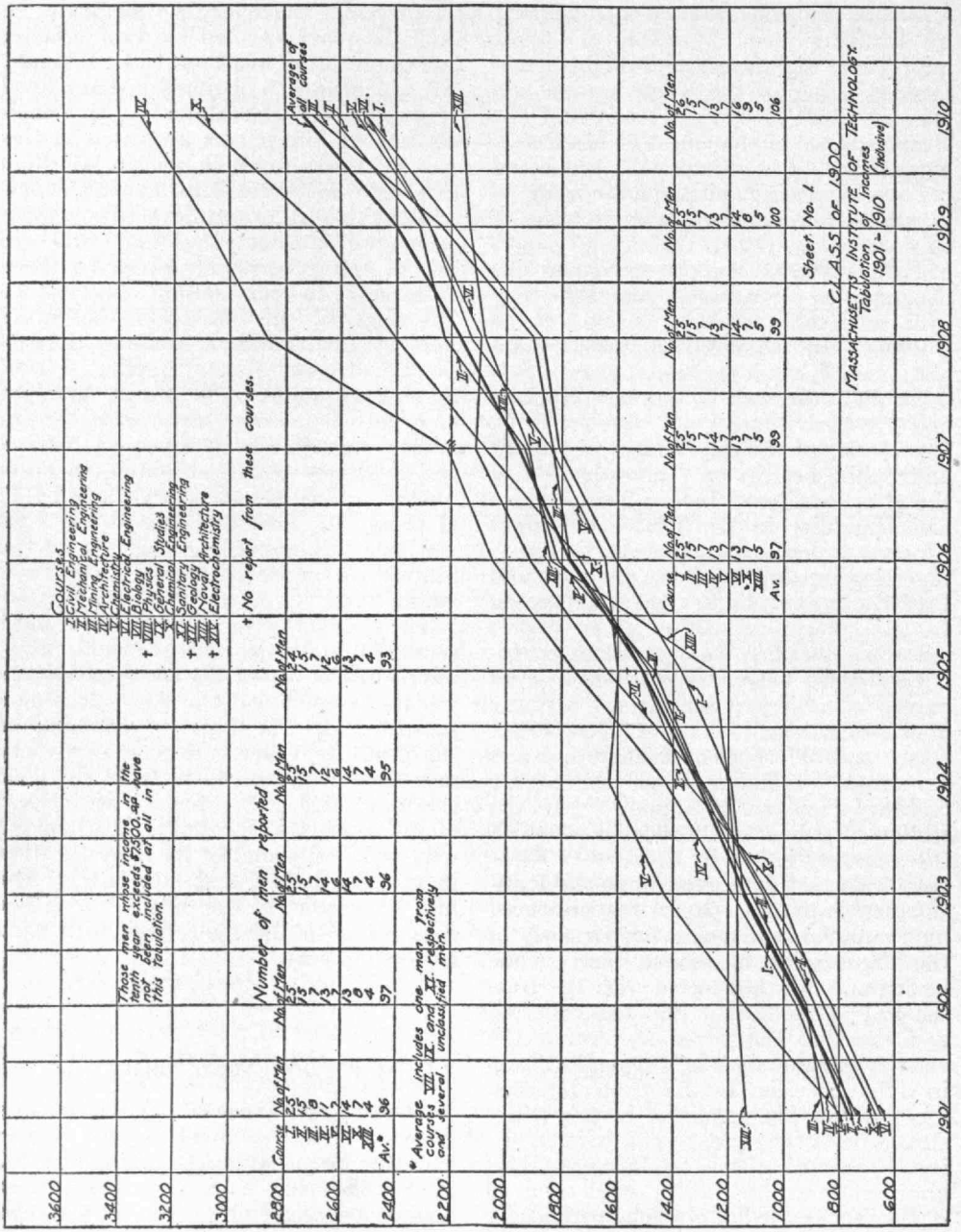
As might be expected, Institute men were prominent in the program of the sanitary engineering section. The vice-chairman of this section was R. S. Weston who has recently come to the Institute to take the place vacated by Prof. Phelps, and the recorder was Prof. G. C. Whipple, '89, of Harvard, a distinguished and loyal graduate of the department of civil engineering. Of the papers presented in this section, thirty-seven in all, no less than fourteen were by Institute men. One session of this section was devoted to a symposium on "Stream Sanitation," and here five of the papers were given by Tech engineers. In the session devoted to "Ventilation," all but one of the papers were by Institute men, while in the session devoted to "Water Supplies" four of the six papers were by Tech men. As might be expected, the representation of the Institute men in the sociological section was relatively small, although two noteworthy papers were presented, one by F. H. Bass, '01, now professor at the University of Minnesota and engineer for the State Board of Health, the other by Prof. Gunn, '05.

The convention as a whole was a most successful and enjoyable one and a pleasant feature of one of the social gatherings was the assembling of the Technology men present, and the hearty rendering of the Institute cheer. More than twenty men thus combined to voice in this way loyalty to M. I. T., as well as their interest in the events of the hour. Technology may well feel proud of its representation in the association, and especially of the high character of the output which her sons bring to these meetings with each succeeding year.

S. C. Prescott, '94.

New York Dinner, January 17

The annual dinner of the Technology Club of New York will be held at the Plaza on Saturday evening, January 17, 1914. The New York Club has a great deal to be proud of as well as thankful for, and this undoubtedly will be a rousing dinner. Tech men who are likely to be in New York on that date please note the time and the place. You will be very welcome if you attend.


Courses
I Civil Engineering
II Mechanical Engineering
III Mining Engineering
IV Architecture
V Chemistry
VI Electrical Engineering
VII Biology
† VIII Physics
IX General Studies
X Sanitary Engineering
† XI Geology
† XII Naval Architecture
† XIII Electrochemistry
Those men whose income in tenth year exceeded $3500. are here included at all in this tabulation.
† No report from these courses.
Number of men reported
Course No. of Men
Average of all courses
* Average includes one man from courses III, IX and XI respectively and several unclassified men.
CLASS OF 1900
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Tabulation of Incomes 1901 - 1910 (inclusive)
Sheet No. 1
INCOME IN DOLLARS
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
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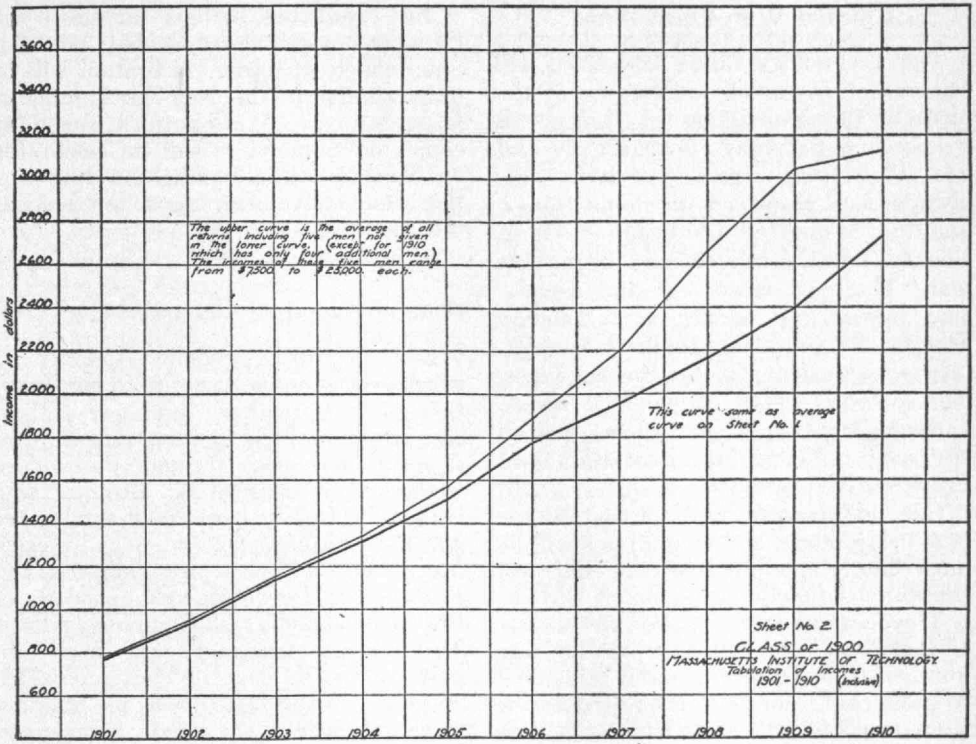

Some Salary Statistics

About a year ago the Alumni Fund committee of the class of 1900 collected some interesting data with reference to salaries, which has been worked up into the graphic diagram shown on these pages. One hundred and ten men furnished the data, and it will be seen that with a few exceptions the body of the class shows a marked uniformity in the amount of income received from year to year. Although the average salary of this group is not astonishingly large, it represents a comfortable and substantial place in the business world. A few of the men prove to have exceptional earning power, and in order not to make the statistics misleading separate curves have been made — one in which these salaries have been included and one in which they have been omitted. Curiously enough these men, of whatever earning power, followed the average curve closely for the first three to five years after graduation. It is interesting to note that a large majority of the men reporting are graduates and are following the line of their courses at Tech. Eleven courses are represented so that the range of data is reasonably diversified.

Assisting the Tech

A journalistic society called Pi Delta Epsilon has been formed at the Institute for the principal purpose of assisting *The Tech* on its literary side. A silver loving cup was recently offered by this society for the best editorials on certain assigned subjects. These editorials will be judged for originalty, power of presentation and breadth of view. The contest has awakened much interest and has brought forward many men who have not identified themselves previously with *The Tech*.

Chicago With Open Arms

The Technology Clubs Associated will celebrate the second anniversary of the birth of this association in Chicago on Friday and Saturday, February 20 and 21. The Northwestern Association has always been renowned for doing things, and the committee has begun preparations to make this convention a memorable one. The new officers of the association elected last month are: Solomon Sturges, '87, president; Kenneth Lockett, '02, vice-president; George Bayard Jones, '05, secretary, 1445 Monadnock Block, Chicago, Illinois. These officers and all the past presidents of the association form the executive committee.

General plans for the convention are now being made, and committees will be immediately appointed to take charge of the various functions connected with it.

The local alumni associations nearest Chicago will no doubt turn out in large numbers to this meeting, and it is planned to have cars from Boston and from New York meet at Albany and take on Tech men along the line of the New York Central, adding cars from time to time as will be needed. It certainly ought to be an easy matter to send a train load from the East to Chicago, and the trip itself will be one of the pleasant features of the reunion. Local associations will undoubtedly hold meetings in the near future to talk over the matter of arrangements for attending the meeting.

The officers of the Technology Clubs Associated are: William H. King, '94, New York, president; Walter Humphreys, '97, Boston, secretary-treasurer; George B. Jones, '05, Chicago, associate secretary; G. W. Kittredge, '77, New York, I. W. Litchfield, '85, Boston, F. E. Shepard, '87, Denver, John L. Shortall, '87, Chicago, F. A. Smythe, '89, Lorain, Ohio, S. B. Ely, '92, Pittsburg, vice-presidents.

A committee will be appointed very soon to take general charge of the transportation problem, and class "boosters" will be appointed in Chicago and in the larger local associations to insure as large an attendance as possible from each class.

Just what the various functions will be have not yet been decided, but it is not unlikely that the celebration will be quite similar to the New York reunion. Inasmuch as Washington's birthday comes on Sunday, it will be celebrated on Monday, thus making the 20th and the 21st convenient days for holding the meeting.

Another Hundred Thousand For Tech

Last month President Richard C. Maclaurin announced a gift to the Institute of one hundred thousand dollars. The money, which is unrestricted in its applications, comes through the will of Frederick W. Emery of Boston, who makes the Institute his residuary legatee and the treasurer of Technology his executor. The will has been allowed and Francis R. Hart, '89, vice-president of the Old Colony Trust Company, who is Technology's treasurer, has been appointed by the court. The sum which will come to the Institute is one hundred thousand dollars, the estate being practically all personal property and the legacies clearly defined.

As in the case of the Pratt bequest of three quarters of a million, this gift comes to Tech as a surprise, for none of the Faculty were intimate with him, and like Mr. Pratt, whose home was formerly on Newbury Street, the windows of Mr. Emery's apartment looked down on the Tech buildings. Both men seem to have gained a good opinion of the school through being its near neighbors. Mr. Emery, who had never married, was for the past twenty years a resident of Hotel Brunswick. He was a skilled hunter and fisherman and a great traveler.

Death of Maurice B. Patch, '72

As the REVIEW goes to press word comes of the death of Maurice B. Patch, '72, of Buffalo, N. Y., on December 3. He suffered a stroke of paralysis while on a visit to his sister, Mrs. Barr, of Derby, N. Y.

OFFICERS OF LOCAL ALUMNI ASSOCIATIONS

Partial list of the Governing Boards of Technology Clubs—Several hundred alumni are interested directly or indirectly in running these Clubs

Following is a list of the officers of the local alumni associations, and of the Technology Clubs Associated:

Technology Clubs Associated: president, William H. King, '94; vice-presidents, George W. Kittredge, '77, I. W. Litchfield, '85, Frank E. Shepard, '87, John L. Shortall, '87, Frank A. Smythe, '89, Sumner B. Ely, '92; secretary-treasurer, Walter Humphreys, '97; associate secretary, George B. Jones, '05.

Southeastern Technology Association: president, E. C. Wells, '92; secretary, A. F. Mohan, '08.

Technology Club of Albany, New York: president, Willis R. Whitney '90; vice-president, John D. J. Moore, '95; secretary-treasurer, Ralph C. Robinson, '01.

Technology Association of Atlanta: president, C. A. Smith, '99; secretary, H. M. Keys, '99.

Technology Club of Boston: president, Seth K. Humphrey, '98; vice-president, Carroll W. Doten, secretary, Robert S. Williams, '02; treasurer, Andrew A. Maclachlan, '96.

Technology Club of Buffalo, New York: president, W. M. Corse, '99; vice-president, H. P. Parrock, '01; secretary, H. M. Cowper, '05; treasurer, Carl Houck, '05.

Northwestern Association of the M. I. T.: president, Solomon Sturges, '87: vice-president, Kenneth Lockett, '02; secretary-treasurer, George B. Jones, '05; Alumni Council representative, I. W. Litchfield, '85.

M. I. T. Club of Cincinnati: president, Stanley A. Hooker, '97; vice-president, Herman W. Lackman, '05; secretary, Stuart R. Miller, '07; treasurer, Robert Andrew, '01; Alumni Council representative, John A. Hildabolt, '75.

Technology Club of Northern Ohio: president, Frank A. Smythe, '89; vice-president, Albert W. Johnston, '73; secretary-treasurer, Donald R. Stevens, '11; Alumni Council representative, P. W. Litchfield, '96.

Rocky Mountain Technology Club: president, George D. Luther '07; secretary, H. L. Williams, '06.

Detroit Technology Association: secretary, Preston M. Smith, '05.

Technology Club of Hartford: president, Burton S. Clark, '00; vice-president, John H. Fellows, '06; secretary-treasurer, George H. Baker, '92.

Hawaii Technology Club: secretary, Norman Watkins, '98.

Technology Club of Japan: secretary-treasurer, Takuma Dan, '78.

Southwestern Association of M. I. T.: president, L. D. Blodgett, '06; vice-president, Hermann Henrici, '06; secretary-treasurer, Robert S. Beard, '05.

Technology Club of the Merrimack Valley: president, George C. Dempsey, '88; vice-president, George W. Hamblett, '88; secretary, John A. Collins, Jr., '97; treasurer, William O. Hildreth, '87; Alumni Council representative, John C. Chase, '74.

Technology Club of Southern California: president, Edward L. Mayberry, '06; vice-president, Edward Johnson, '99; secretary-treasurer, Robert S. Breyer, '10.

Technology Club of New Hampshire: president, James L. Arnott, '75; vice-president, Norwin S. Bean, '94; secretary-treasurer, Walter D. Davol, '06.

Technology Club of the Far East: secretary, William A. Adams, '08.

Technology Club of Milwaukee: secretary, Mitchell Mackie, '05.

Technology Association of Minnesota: president, W. H. Bovey, '94; vice-president, G. H. Goodell, '92; secretary, D. W. C. Ruff, '07; treasurer, Mark G. Magnuson, '04.

Technology Club of Lower Canada: president, D. J. Spence, '00; vice-presi-

dent, H. O. Keay, '00; secretary-treasurer, E. B. Evans, '06.

Technology Club of New Bedford, Mass.: president, Benjamin C. Tripp, '97; secretary-treasurer, Richard D. Chase, '92.

Technology Club of the South: president, Allison Owen, '94; vice-president, Walter G. Zimmerman, '98; secretary-treasurer, Francis W. Crosby, '90.

Technology Club of New York: president, Benjamin Hurd, '96; vice-president, J. Waldo Smith, '87; treasurer, Ira Abbott, '81; secretary, Walter Large, '79; Alumni Council representative, Benjamin Hurd, '96.

Technology Club of Philadelphia: president, David A. Lyle, '84; vice-president, Frank H. Keisker, '97; secretary-treasurer, Dudley Clapp, '10; Alumni Council representative, William H. Blakeman, '06.

Pittsburgh Alumni Association: president, Morris Knowles, '91; vice-president, W. E. Mott, '89; secretary-treasurer, H. A. Rapelye, '08; Alumni Council representative, Sumner B. Ely, '92.

Pittsfield Alumni Association: president, E. A. Jones, '87; vice-president, Samuel H. Blake, '94.

Technology Association of Oregon: president, F. A. Naramore, '07; secretary, Felix A. Burton, '09.

Technology Club of Rhode Island: president, Charles F. Tillinghast, '95; vice-president, William C. Dart, '91; secretary-treasurer, Gerald M. Richmond, '99; Alumni Council representative, E. B. Homer, '85.

Technology Club of Rochester: president, William E. Hoyt, '68; first vice-president, Frank W. Lovejoy, '94; second vice-president, Allen S. Crocker, '97; secretary-treasurer, John F. Ancona, '03.

St. Louis Society of the M. I. T.: chairman, John L. Mauran, '89; secretary-treasurer, Amasa M. Holcombe, '04.

Technology Association of Northern California: president, Eugene F. Kriegsman, '05; secretary-treasurer, Howard C. Blake, '06.

Inter-mountain Technology Association: president, Lewis T. Cannon, '96; first vice-president, C. S. McDonald, '99; second vice-president, D. H. Blossom, '98; secretary-treasurer, Gregory M. Dexter, '08.

Technology Club of Puget Sound: president, Clancy M. Lewis, '99; vice-president, G. E. Channing, '75; secretary, Joseph Daniels, '05; Alumni Council representative, I. W. Litchfield, '85.

Inland Empire Association of the M. I. T.: president, Shirley S. Philbrick, '98; vice-president, William J. Roberts, '91; secretary, Philip F. Kennedy, '07.

Technology Club of the Connecticut Valley: president, Eben S. Stevens, '68; secretary-treasurer, Ernest W. Pelton, '03.

Technology Club of Central Pennsylvania: president, R. V. Mackay, '06; secretary, E. L. Chapman, '01.

M. I. T. Club of Central New York: president, David D. Mohler, '03; vice-president, Edwin W. Bonta, '07; secretary-treasurer, Harry N. Burhans, '07; Alumni Council representative, Irving S. Merrell, '96.

Technology Club of the University of Illinois: president, Allen B. McDaniel, '01; secretary, Horatio N. Parker, '94; treasurer, Paul Hansen, '04.

Washington Society of the M. I. T.: president, Frederick W. Swanton, '90; vice-president, William H. Bixby, '70; secretary, Walter J. Gill, Jr., '04; treasurer, F. Charles Starr, '05; Alumni Council representative, I. W. Litchfield. '85.

Technology Association of Worcester County: president, Albert S. Heywood, '92; vice-president, Frank E. Davis, '83; secretary-treasurer, Louis E. Vaughan, '02.

Arthur Edgar, '12

Arthur Edgar, '12, died last month at his home in White Haven, Pa. Dr. Edgar was graduated from Lehigh in 1905, and received his Ph. D. from the Institute in 1912. He then became an instructor in chemistry at Columbia University.

Chicago cordially invites you to her "open-house" February 20 and 21

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